

Little Brain - Big Brain II

Thursday, November 14, 1991

8:00 a.m. Breakfast

Chairman: D. Grundy

- 9:00 - 9:30 T. Smith, University of Nevada, Nevada, USA - "Reflex pathways activated by distension and mucosal stroking converge onto common interneurons and motor neurons within the myenteric plexus of the guinea-pig ileum"
- 9:30 - 10:00 J. Bornstein, Flinders University, South Australia, Australia - "Towards a model of the enteric circuitry mediating peristaltic reflexes"
- 10:00 - 10:30 S. Brookes, Flinders Medical Center, South Australia, Australia - "Identification of functional classes of neurones in the guinea pig small intestine"
- 10:30 - 11:00 H. Allescher, Klinik und Poliklinik der Technischen Universität München, München, Germany - "Mechanisms and regulation of the ascending nerve pathway in the rat ileum"
- 11:00 - 11:30 M. Takaki, Okayama University Medical School, Okayama, Japan - Prejunctional inhibitory action of ruthenium red, neuropeptide Y and galanin on motor and myenteric neural responses due to antidromic activation of capsaicin-sensitive sensory nerves in the isolated guinea-pig ileum"

12:00 p.m. Lunch

Chairman: J. Wood

- 13:00 - 13:30 H. Raybould, VA Wadsworth Medical Center, Los Angeles, California, USA - "
- 13:30 - 14:00 W. Richards, The University of Sheffield, Sheffield, U.K. - "Mesenteric afferent sensitivity in the terminal ileum"
- 14:00 - 14:30 A. Blackshaw, Royal Adelaide Hospital, Adelaide, Australia - "Stimulus - specificity of vagal gastrointestinal mucosal receptors"
- 14:30 - 15:00 M. Crowell, Francis Scott Key Medical Center, Baltimore, MD, USA - "Evaluation of mechanisms associated with distension induced defecation in pigs"
- 15:00 - 15:30 Coffee

Chairman: D. Grundy

- 15:30 - 16:00 K. Schulze, The University of Iowa, Iowa City, Iowa, USA - "
- 16:00 - 16:30 M. Schemann, Universität Hohenheim, Stuttgart, Germany - "Interactions between the "Little Brain" and the "Big Brain"

- 17:00 - 17:30 H. Mönnikes, - "Role of corticotropin-releasing factor (CRF) in the paraventricular nucleus of the hypothalamus (PVN) in the regulation of gastrointestinal transit and motility"
- 18:00 Dinner

Friday, November 15, 1991

- 8:00 a.m. Breakfast

Chairman: J. Wood

- 8:45 - 9:15 K. Sharkey, The University of Calgary, Calgary, Alberta, Canada - "Motor responses elicited by antigen-challenge of the sensitized inferior mesenteric ganglion (IMG) of the guinea pig"
- 9:15 - 9:45 D. Vermillion, McMaster Univ Med Center, Hamilton, Ontario, Canada - "Functional innervation of colonic smooth muscle in patients with or without inflammatory bowel disease"
- 9:45 - 10:15 J. Palmer, Medical College of Wisconsin, Milwaukee, Wisconsin, USA - "Electrical behavior of myenteric plexus neurons in guinea pig small intestine during inflammation associated with Trichinella Spiralis infection and effects of anti-inflammatory agents"
- 10:15 - 10:45 M. Otterson, Medical College of Wisconsin, Milwaukee, Wisconsin, USA - "Fractionated doses of radiation alter enteric neuroregulatory peptides"
- 10:45 - 11:15 J. Wiley, University of Michigan, Ann Arbor, Michigan, USA - "Differential regulation of voltage-gated calcium channels by receptor-activated G proteins in vagal sensory neurons"
- 11:15 - 11:45 M. Gué, V.A. Wadsworth Medical Center, Los Angeles, California, USA - "NPY acts through sigman receptors to block the conditioned emotional response and CRF induced colonic motor activation in rats"
- 12:00 p.m. Lunch

Chairman: D. Grundy

- 13:00 - 13:30 A. Kroese, Wageningen Agricultural University, Wageningen, The Netherlands - "Soma size and location of electrophysiologically identified myenteric plexus neurons of guinea-pig distal ileum"
- 13:30 - 14:00 K. Tamura, Tokai University, Tsehara, Japan - "Morphological and electrophysiological studies of the myenteric neurons in the guinea-pig colon"

14:00 - 14:30 P. Trudrung, Universität München, München, Germany - "Does local extrinsic denervation facilitate the restoration of the rat enteric nervous system after surgical interventions?"

14:30 - 15:00 Coffee

Chairman: J. Wood

15:00 - 15:30 A. Kirchgessner, Columbia University, New York, NY, USA - "Identification and stimulation by serotonin of intrinsic sensory neurons of the submucosal plexus of the guinea pig gut: activity-induced expression of Fos immunoreactivity"

15:30 - 16:00 P. Wade, Columbia University, New York, NY, USA - "Enteric neuronal 5-HT receptor subtypes and their role in peristalsis in the guinea pig bowel"

16:00 - 16:30 J. Schuurkes, Janssen Research Foundation, Beerse, Belgium - "Facilitation of cholinergic neurotransmission in the myenteric plexus via 5-HT₄ receptors"

16:30 - 17:00 J. Tack, Campus Gasthuisberg K.U.L., Leuven, Belgium - "Effects of substituted benzamides and interactions with 5-HT receptors on myenteric neurons in the guinea-pig gastric antrum"

17:00 - 17:30 J. Galligan, Michigan University, East Lansing, Michigan, USA - "Non-cholinergic synaptic potentials blocked by the 5-HT receptor antagonist, ondansetron (GR38032F) in the guinea-pig ileum myenteric plexus"

18:00 Dinner

Saturday, November 16, 1991

8:00 a.m. Breakfast

Chairman: J. Wood

8:40 - 9:10 N. Furukawa, Kawasaki Medical School, Kurashiki, Japan - "Bile evacuative and interruptive responses induced by stimulation of canine hypothalamus and medulla"

9:10 - 9:40 G. Mawe, University of Vermont, Burlington, Vermont, USA - "Norepinephrine inhibits ganglionic transmission in the guinea pig gallbladder via presynaptic α_2 receptors"

9:40 - 10:10 M. Karaus, Freie Universität Berlin, Berlin, Germany - "Contrasting cholinergic transmission of CCK-effects on gallbladder and intestinal motility in conscious dogs"

10:10 - 10:25 Coffee

10:25 - 10:55 G. Holtmann, Med. Klinik der Universität Essen, Essen, Germany - "The effects of nutrients on intestinal motility in humans"

- 10:55 - 11:25 N. Brown, The University of Sheffield, Sheffield, U.K. - "Involvement of extrinsic innervation in the "ileal brake" mechanism"
- 11:25 - 11:55 B. Greenwood, Lilly Corporate Center, Indianapolis, Indiana, USA - "Muscarinic regulation of gastrointestinal motility and secretion"
- 12:00 p.m. Lunch
- Chairman: J. Wood
- 13:00 - 13:30 A. Kuwahara, Okazaki National Research Institutes, Okazaki, Japan - "
- 13:30 - 14:00 F. Angel, Pavillon Chirurgical B, Hopital Civil, Strasbourg, France - "Neuromodulation of myoelectrical activities of the muscularis mucosae in the canine intestine in situ"
- 14:00 - 14:30 D. Zafirov, The Ohio State University, Columbus, Ohio, USA - "Neuromodulatory signals in neurons of the submucous plexus of guinea-pig small intestine"
- 14:30 - 15:00 T. Frieling, Heinrich Heine Universität Medizinische Klinik, Dzseldorf, Germany - "In vitro distension of guinea-pig colon evokes chloride secretion mediated by the submucous plexus independent of the myenteric plexus"
- 15:00 - 15:30 P. Enck, Heinrich Heine Universität Medizinische Klinik, Dzseldorf, Germany - "
- 15:30 - 16:00 Coffee
- 16:00 Business Meeting
- 18:00 Dinner